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(74) Agent: STEINECKE, Peter, Müller Founer Steinecke, Rechtsanwälte Patentanwälte, P.O. Box 31 01 40, 80102 Munich (DE).

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(71) Applicant (for all designated States except US): AXIO-GENESIS AG [DE/DE]; Joseph-Stelzmann-Str. 50, 50931 Köln (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): KOLOSSOV, Eugen [DE/DE]; Franz-Hitze-Strasse 1, 50672 Köln (DE). HESCHELER, Jürgen [DE/DE]; Eckdorfer Strasse 7, 50968 Köln (DE). BOHLEN, Heribert [DE/DE]; Auerstrasse 4, 50733 Köln (DE). FLEISCHMANN, Bernd [DE/DE]; Kerpener Strasse 2, 50937 Köln (DE). RÖLL, Wilhelm [DE/DE]; Gerolsteiner Str. 11, 50937 Köln (DE). EHLICH, Andreas [DE/DE]; Johannesweg 35, 53894 Mechernich (DE). KÖNIGSMANN, Jessica [DE/DE]; Rigaer Str. 95, 10247 Berlin (DE).

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(54) Title: TISSUE MODELING IN EMBRYONIC STEM (ES) CELL SYSTEM

(57) Abstract: Provided are embryonic stem (ES) cell-derived tissue modeling systems. In particular, systems for the *de novo* generation of tissue by parallel drug selection of cell types constituting the tissue of interest in one culture of differentiating ES cells is described as well as the use of such systems in transplantation and drug development.

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